## **Amendments to the Specification**

Please replace the two paragraphs extending from page 6, line 15 to page 7, line 7 with the following amended paragraphs:

Both theoretical and experimental work have demonstrated the efficient guidance of light in a two-dimensional photonic crystal slab waveguide device (see "Demonstration of Highly Efficient Waveguiding in a Photonic Crystal Slab at the 1.5 

mm Wavelength", S. Lin, E. Chow, S. Johnson and J. Joannopoulos, Opt. Lett. 25, pp 1297-1299, 2000). In addition, there has been some investigation into potential applications for interacting with the guided optical modes of the waveguide device. Applications that have previously been discussed include tunable, waveguide dependent devices (see commonly owned, copending U.S. Patent Application Serial No. 09/846,056 09/846,856)-and channel drop filters (see U.S. Patent No. 6,130,969).

Photonic crystal devices such as are discussed in U.S. Patent Application
Serial No. 09/846,056 09/846.856 do not extract and redirect specific wavelengths as
are needed in a WDM communications system. In addition, although the tunability of
such devices has been demonstrated, the range of tuning of the devices is rather
limited. U.S. Patent No. 6,130,969 discloses a photonic crystal channel drop filter for
WDM communications systems; however, the described filter is not tunable. For a
drop filter to function effectively in a WDM system, it is desirable that the filter be
tunable over a full range of operating frequencies. Thus, existing photonic crystalbased devices are generally not fully satisfactory for use as an extraction device in a
WDM system.